

## A1. Specifications. Polar Bear Plus

Part number	35760
Conformity	CE
Commodity Code	8419500090

### General

Plate material	Copper, chrome plated
Plate diameter	mm 149
Temperature range	°C -40 to 150
Plate sensor	PT100
Dimensions (W x D x H)	mm 200 x 320 x 170
Weight	kg 9
Display	VGA
Set point temperature setting resolution	°C 0.01
Temperature display resolution	°C 0.01
Safety circuit min. (software)	°C -50
Safety circuit max. (thermal fuse)	°C 160
Accuracy	°C better than ± 1.0
Control method	PID
External Sensor	PT 100
Control accuracy with external sensor in former at 0 °C	°C ±0.10

### Stirring

Stirring quantity max. (H2O)	L 1
Motor rating input	W 60
Motor rating output	W 30
Speed range	rpm 0, 200 - 1500
Speed setting resolution	rpm 1
Speed display resolution	rpm 1
Stirring bar length max.	mm 50

### Heating (Plate only)

Heating output	W 180
Heating time from 20°C to 100°C	min 10

### Cooling (Plate only)\*

Cooling time from 20°C to 0°C	min 5
Cooling time from 20°C to -20°C	min 12
Cooling time from 20°C to -30°C	min 21
Cooling time from 20°C to -40°C	min 43

\* with our silicone insulation

Temperature profiles with up to 16 separate segments	No
Temperature cycling	No
Computer and Labview integration	Yes

### Electrical

Voltage	V 220 - 240
Frequency	Hz 50/60
Power input	W 630
Fuses (External)	F0, 10A (110-230V)
Fuses (Internal)	F1, 3A (110-230V) F2, 10A (24V)

### Connectivity

Ethernet interface	yes
USB Data Storage	yes
Real time historical log	yes

### Environment

Permissible ambient temperature	°C 5 - 40
Permissible relative moisture	No data
Protection class according to DIN EN 60529	IP 20

Packing box dimensions (L x W x H)	cm 40 x 30 x 42
Packing box weight	kg 12±2

\*\*The cut out temperature of the thermal fuse depends on its position within the unit and the level of insulation.